







Madison, Ruby, & Jefferson Watershed Floodplain Maps Update

Completed in 2019	Completed in 2020	Completed in fall 2020	Broadwater County 10/14/2022 Madison County 2/24/2023 Gallatin County Mid- late2023 (est)	Broadwater County 2024 (est) Madison County 2024-2025 (est) Gallatin County 2024-2025 (est)
Measurements are made of the topography around the river, along with any culverts, bridges, and road crossings. LiDAR uses an airplane to collect ground elevation over a large area, and ground survey supplements the airborne data. Flood flow data determines how much water there will be in a river during a flood event.	The elevation and survey data are combined with the flood flow data to determine where the water will go when it overflows the channel and how far it will spread out. The area shown to be underwater and at high risk is mapped as the regulatory floodplain.	Draft data is delivered to the communities. Public open houses were held in January 2021 and March 2021 for landowners to begin to review the information.	FEMA Preliminary Maps are produced and ready for public review and comment period. 90-day official comment & appeal period Broadwater County 5/3/2023- 8/1/2023 Madison County Tentative 8/25/2023-11/22/2023	FEMA Flood Insurance Rate Maps finalized.
Data gathering	Engineering and floodplain modeling	Draft Data available public review	Preliminary Data public comment and appeal period	Flood Insurance Rate Maps become effective

Flood Study Conducted

4 steps of a flood study.

- 1) Survey & LiDAR
- 3) Hydraulics (engineering)
- 2) Hydrology (flood flow) 4) Mapping (delineation)

Public Review

Open houses are usually held during this time.

During this time public comments are encouraged. Contact local floodplain administrator to make comments or get information on the project. FEMA will hold an official 90-day appeal period after the maps become preliminary.

Resiliency and Mitigation efforts

Once new maps become effective the community can determine what mitigation efforts it would like to pursue to reduce flood risks.